

Title (en)
EMULATION OF INTERRUPT CONTROL MECHANISM IN A MULTIPROCESSOR SYSTEM

Title (de)
EMULATION VON UNTERBRECHUNGSMECHANISMUSIN EINEM MULTIPROZESSORSYSTEM

Title (fr)
EMULATION DU MECANISME DE GESTION DES INTERRUPTIONS DANS UN SYSTEME MULTIPROCESSEUR

Publication
EP 0976036 A4 20011114 (EN)

Application
EP 98919783 A 19980416

Priority
• US 9807708 W 19980416
• US 84399697 A 19970418

Abstract (en)
[origin: WO9848346A2] A multiprocessor computer system that includes an emulation feature for lowest priority processor software compatibility while providing fault tolerance includes first and second processors coupled to a system bus that handles transmission of interruption messages within the system. An instruction resulting in an interruption which specifies an interrupt feature causes microcode to generate a trap. A trap handling routine reads ID information from a register of the first processor, and places it in a target processor ID field of an interruption message which gets broadcast on the system bus. The first processor eventually accepts the interruption message and is designated as the processor in the system which handles the interruption.

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IPC 8 full level
G06F 9/455 (2006.01); **G06F 9/48** (2006.01)

CPC (source: EP US)
G06F 9/45554 (2013.01 - EP US); **G06F 9/4812** (2013.01 - EP US)

Citation (search report)
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• [A] US 5410709 A 19950425 - YU KIN C [US]
• [A] US 4763242 A 19880809 - LEE RUBY B [US], et al
• [A] HARRIS S ET AL: "Software Links Math Chip to 68000-family mUPs", EDN ELECTRICAL DESIGN NEWS, CAHNERS PUBLISHING CO. NEWTON, MASSACHUSETTS, US, vol. 31, no. 2, 23 January 1986 (1986-01-23), pages 175 - 182,184,189-190,192, XP000211577, ISSN: 0012-7515
• [A] "POWER/POWER PC BINARY INCOMPATIBILITY ANALYZER", IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 37, no. 9, 1 September 1994 (1994-09-01), pages 91 - 92, XP000473342, ISSN: 0018-8689
• See references of WO 9848346A2

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